

Michigan Department of Licensing and Regulatory Affairs



GUIDELINES FOR ANALYTICAL X-RAY EQUIPMENT OPERATING PROCEDURES AND OPERATOR TRAINING Radiation Safety Section



Rules 486 and 508 - Operating Procedures

The operating procedures should include information such as:

- A. Qualified operators
- B. Procedures for becoming qualified and authorized operators
- C. Wearing of personnel radiation monitoring devices
- D. Procedures regarding maintenance, service and electrical lock out
- E. Proper notification of the Radiation Protection Supervisor before maintenance and service procedures begin
- F. Emergency procedures

Rules 485, 507 and 215 - Operator Training

A training program may involve the following. Some of the items may not apply in certain cases:

I. Fundamentals of Radiation Safety

- A. Characteristics of x radiation
- B. Units of radiation dose
- C. Biological effects
- D. Hazards of excessive radiation exposure
- E. Normal levels of radiation from the equipment and potential levels during accident conditions

II. Radiation Detection

- A. Use of personnel monitoring devices
- B. Use of radiation monitoring instruments

III. Specific Written Procedures for the Operation and Control of the X-Ray Equipment, Including Maintenance and Emergency Procedures

IV. Pertinent Federal and State Regulations and Recommendations

We recommend that documentation which indicates that each operator has received the appropriate training be maintained in the company records.